

## DESCRIPTION

The Radiant Series DL612 is meant to connect to any Gigabit Ethernet Switch with Multimode fiber outputs (SX) and transmit the information for distances of up to 80 km over singlemode fiber.

The Radiant Series DL612 is a Gigabit Ethernet Multimode to Singlemode converter. It can also be used as a singlemode to singlemode repeater. The Series DL612 is different from the other Gigabit Multimode to Singlemode converters on the market because our converter contains a clock recovery circuit. Clock recovery means that the Series DL612 is only limited in distance by the power of the Singlemode optics. This family of converters is also available in both one fiber and two fiber versions, with the longest distance options in the industry.

## DL612 Fiber Optic Gigabit Ethernet Converter/Repeater

### BENEFITS

- Meets all industry standards
- True Plug-and-Play Operation
- Interfaces with SX Gig Ethernet fiber ports
- Transmission distances of 80 km or more

### FEATURES

- SX to LX converter
- Singlemode to Singlemode repeater
- Options for CWDM and DWDM Systems (ITU Grid)



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10/2004

# DL612

## SPECIFICATIONS

### Standards

IEEE802.3  
1000 Base Sx  
1000 Base Lx  
BER 1 x 10<sup>-10</sup>

### Optical

Wavelength: SX — 850nm  
LX — 1310nm, 1550nm,  
1310/1550nm, CWDM, DWDM  
Power Budget: see table below  
Optical Connectors: SX — SC  
LX — SC, SC/APC, FC, FC/APC

### General Characteristics

Power: 90 to 240V AC  
Operating Temp: 0° to 40° C  
Humidity: 0-95% non-condensing  
Size: 17.0" W x 13.0D x 1.75" H

## ORDERING INFORMATION

| PART NUMBER                      | DESCRIPTION                   | MULTIMODE SIDE (SX) |        |             |          | SINGLEMODE SIDE (LX) |        |             |          |
|----------------------------------|-------------------------------|---------------------|--------|-------------|----------|----------------------|--------|-------------|----------|
|                                  |                               | WAVELENGTH          | FIBERS | ATTENUATION | DISTANCE | WAVELENGTH           | FIBERS | ATTENUATION | DISTANCE |
| DL612-AC-UX3                     | SX to LX Converter            | 850nm               | 2      | 10dB        | 2km      | 1310nm               | 2      | 10dB        | 20km     |
| DL612-AHPC-UX3                   | SX to LX Converter            | 850nm               | 2      | 10dB        | 2km      | 1310nm               | 2      | 18dB        | 50km     |
| DL612-AD-UX5                     | SX to LX Converter            | 850nm               | 2      | 10dB        | 2km      | 1550nm               | 2      | 10dB        | 50km     |
| DL612-ADHP-UX5                   | SX to LX Converter            | 850nm               | 2      | 10dB        | 2km      | 1550nm               | 2      | 18dB        | 80km     |
| DL612-AE-UX3                     | SX to LX Converter            | 850nm               | 2      | 10dB        | 2km      | 1310nm               | 1      | 10dB        | 20km     |
| DL612-AEHP-UX3<br>DL612-AEHP-UX5 | Set of<br>SX to LX Converters | 850nm               | 2      | 10dB        | 2km      | 1310/1550nm          | 1      | 18dB        | 50km     |

For DL612 Repeaters contact factory

### Note:

- Specify X — LX connector type: A — SC/APC, E — SC, Z — FC/APC, B — FC
- Add -M to the part number for SNMP management
- Add -48 to the part number for 48VDC power
- For higher optical budgets and distances, CWDM and DWDM systems, contact factory
- For singlemode to singlemode repeaters, contact factory



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